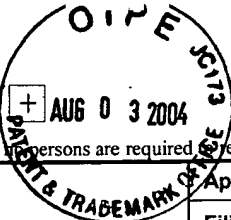


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PTO/SB/81 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/763,537
Filing Date	January 23, 2004
First Named Inventor	John Shigeura (Deceased)
Group Art Unit	3753
Examiner Name	To be assigned
Attorney Docket Number	5094

I hereby appoint:



Practitioners at Customer Number

22896



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PATENT TRADEMARK OFFICE

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I am the:



Applicant/Inventor.



Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature

Name

Phil N. Makrogiannis, Patent Attorney, Reg. No. 47,766

Date

July 27, 2004

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.*



* Total of _____ forms are submitted.

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: John Shigeura (Deceased)Application No./Patent No.: 10/763,537Filed/Issue Date: January 23, 2004Entitled: HEAT TRANSFER FOR THERMAL CYCLINGApplera Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

In the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above was fax filed with the Assignment Division on July 27, 2004.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

July 27, 2004

Date

Phil N. Makrigiannis

Typed or printed name


Signature

Patent Attorney

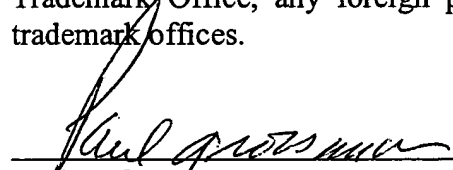
Title

**LIMITED AUTHORIZATION TO ACT ON BEHALF OF ASSIGNEE
REGARDING CERTAIN PATENT AND TRADEMARK MATTERS
EFFECTIVE THROUGH: December 31, 2006**

I, Paul D. Grossman, as Assistant Secretary of Applera Corporation ("Applera"), hereby authorize the following patent attorneys:

Scott R. Bortner, Reg. No. 34,298
John W. Burns, Reg. No. 43,520
Jeffery D. Frazier, Reg. No. 34,601
Brian D. Gildea, Reg. No. 39,995
Andrew T. Karnakis, Reg. No. 27,909
Phil N. Makrogiannis, Reg. No. 47,766
Vincent M. Powers, Reg. No. 36,246

(1) to act on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark entities, (2) to execute power of attorney documents on behalf of Applera, to appoint and/or establish any attorneys, agents, and/or law firms to act on behalf of Applera, in any foreign or international patent or trademark applications filed with any foreign and/or international patent or trademark offices, and (3) to execute assignment and ownership documents on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark offices.

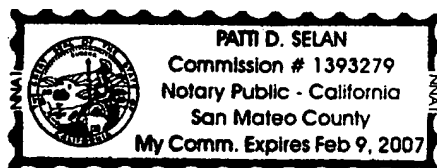

Paul D. Grossman
Assistant Secretary,
Applera Corporation

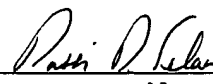
3/26/04
Date

State of California)
) ss.
County of San Mateo)

On March 26, 2004 before me, Patti D. Selan, personally appeared Paul D. Grossman, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

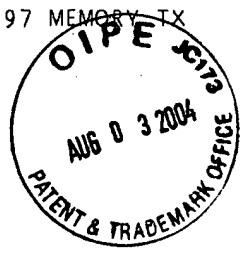
WITNESS my hand and official seal.




Notary Public

FAX HEADER 1: APPLIED BIOSYSTEMS' LEGAL2
FAX HEADER 2:

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Foster City, CA 94404-1128 U.S.A.
www.appliedbiosystems.com

FAX TRANSMITTAL

Date: July 27, 2004

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Assignment Division
United States Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

Fax No.: 703-306-5995

Telephone No.: 703-308-9723

From: Cheri Gomez for Phil N. Makrogiannis, Reg. No. 47,766
Legal Department
Fax No.: 650-638-6677
Telephone No.: 650-638-5039
Email: gomezcn@applera.com

Subject: U.S. Patent Application No. 10/763,537
Filing Date: January 23, 2004
Attorney Docket No.: 5094

No. of pages (including cover sheet): 5

Message:

Attached please find a Recordation Form Cover Sheet (in duplicate) and an executed Assignment (2 pages) for the above-identified patent application. Applicants respectfully request a recordation of Assignment and hereby authorize the Commissioner to charge the required fees to Deposit Account No. 01-2213 (Order No. 5094 US).

Please fax return Notice of Recordation confirmation to fax no. 650-638-6677.

Should you have any questions, please feel free to contact me. Thank you.

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FAX TRANSMITTAL

Date: July 27, 2004

**To: Commissioner of Patents and Trademarks
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Fax No.: 703-306-5995

Telephone No.: 703-308-9723

**From: Cheri Gomez for Phil N. Makrogiannis, Reg. No. 47,766
Legal Department
Fax No.: 650-638-6677
Telephone No.: 650-638-5039
Email: gomezcn@appler.com**

**Subject: U.S. Patent Application No. 10/763,537
Filing Date: January 23, 2004
Attorney Docket No.: 5094**

No. of pages (including cover sheet): 5

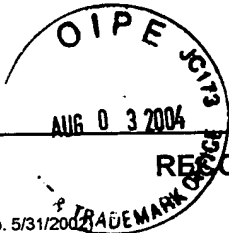
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Form PTO-1595
(Rev. 03/01)

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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Case No: 5094

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):

Janice G. Shigeura, Executrix for
inventor John Shigeura (Deceased)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Applera Corporation

Internal Address: Applied Biosystems Group

Street Address: 850 Lincoln Centre Drive

City: Foster City State: CA ZIP: 94404-1128

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other: _____

Execution Date: June 28, 2004

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 10/763,537

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Phil N. Makrogiannis
Applied Biosystems Group
850 Lincoln Centre Drive
Foster City, California 94404-1128

Telephone: 650-570-6667

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

☒ Authorization to charge additional fees.

8. Deposit account number:

01-2213

(Attached duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Phil N. Makrogiannis, Reg. No. 47,766

Name of Person Signing


Signature

7/27/04
Date

Total number of pages comprising cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:
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P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

For good and valuable consideration paid to me, receipt of which is hereby acknowledged, I,

**Janice G. Shigeura, Executrix for inventor John Shigeura (DECEASED), residing at
1021 Los Trancos Road, Portola Valley, California, 94028 Citizenship: US;**

do hereby sell, assign, and set over unto

Applera Corporation

a Delaware corporation having a place of business at 850 Lincoln Centre Drive, Foster City, California (hereinafter "Assignee"), its successors, legal representatives and assigns, my entire right, title, and interest in and to any and all of my inventions and discoveries entitled:

HEAT TRANSFER FOR THERMAL CYCLING

as described and/or claimed in my United States patent application, having an oath or declaration fully executed by me and, subsequently assigned Serial Number 10/763,537 and filing date of January 23, 2004 by the United States Patent and Trademark Office; in and to the right to file patent applications in the name of Assignee, its designee, in my name, or in any of my other name or names, on the aforesaid inventions and discoveries in any or all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models, and under any other international arrangement to which the United States now is or hereafter becomes a signatory; in and to any and all applications for Letters Patent, and any and all Letters Patent that issue on any of the aforesaid applications, and in and to any and all divisions, continuations, and continuations-in-part of any and all of said applications, and any and all reissues, renewals and extensions of any of said Letters Patent, such that the same right, title and interest to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, shall be as full and complete as that that would have been held and enjoyed by me if this assignment and sale had not been made.

I further hereby covenant and agree, for the same consideration, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with said invention, or said application for Letters Patent, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable to sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

I hereby authorize Assignee to insert in this instrument the serial number and filing date of said application when officially notified thereof.

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Case No. 5094

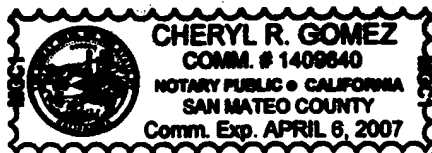
Name of inventor: **Janice G. Shigeura, Executrix for inventor John Shigeura (DECEASED)**

Inventor's signature Janice G. Shigeura Date: 6-28-04

State of California)
) ss.
County of San Mateo)

On June 28, 2004 before me, Cheryl R. Gomez, Notary Public, personally appeared Janice G. Shigeura, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Cheryl R. Gomez
Notary Public